

Amendments to the Claims

The following listing of claims replaces all prior listings, and all prior versions, of claims in the application.

Listing of Claims

1. (currently amended) Shoulder joint prosthesis, ~~characterized by~~ comprising an at least two-piece humeral head prosthesis, composed of a calotte or joint head (3), and an attachment body (5, 7), including a ~~an~~ attachment part (15) for the mounting attachment of the calotte, as well as a mounting segment (21) to effect ~~the~~ an at least cement-free anchoring of the attachment body within the bone.

2. (currently amended) Prosthesis according to Claim 1, ~~characterized in that wherein~~ the attachment body is of an at least two-part design, including as said attachment part a disk-like positioning body (5) having a medial hole, and as said mounting segment an anchoring body (7) provided in order to affix the positioning body (5) to the bone through the medial hole (19).

3. (currently amended) Prosthesis according to ~~one of Claims 1 or 2,~~ characterized in that Claim 2, wherein the ~~attachment body or anchoring body~~ has a hollow screw.

4. (currently amended) Prosthesis according to ~~one of Claims 1 through 3,~~ characterized in that Claim 2, wherein the calotte or joint head (3) has at least one nearly spherical surface (33) corresponding to a spherical section with an opening angle of $< 180^\circ$.

5. (currently amended) Prosthesis according to ~~one of Claims 2 through 4,~~ characterized in that Claim 2, wherein the disk-like positioning body has an at least nearly circular projecting collar (15) with a terminally located, preferably conical support edge, and that wherein a beveled retaining flange (25) is formed on the anchoring body ~~or hollow screw (7)~~ terminally projecting

outward to match the support edge so as to rest on or abut the support edge (17) inside the collar (15).

6. (currently amended) Prosthesis according to ~~one of Claims 1 through 5~~, characterized in that Claim 5, wherein the joint head (3) has an at least nearly hollow-cylinder-shaped receiver (31) on the side opposite the nearly spherical surface (33), provided to mount the joint head on the attachment body.

7. (currently amended) Prosthesis according to Claim 6, ~~characterized in that wherein~~ the wall (35) of the hollow-cylinder-shaped receiver (31) and the external surface of the collar (15) of the disc-like positioning or pressure disk (5) body is of a slightly conical or beveled design so as to provide a form-locking and positionally correct mounting of the joint head over the collar (15).

8. (currently amended) Method of fitting a shoulder joint prosthesis according to ~~one of Claims 1 through 7~~, characterized in that an comprising an at least two-piece humeral head prosthesis, composed of a calotte or joint head, and an attachment body including an attachment part for the mounting attachment of the calotte, as well as a mounting segment to effect an at least cement-free anchoring of the attachment body within the bone, said method comprising fitting the attachment body of the prosthesis (5, 7) is first fitted on the a previously prepared bone, after which, and then fitting the joint head or calotte (3) is fitted of the prosthesis on the attachment body.

9. (currently amended) Method according to Claim 8, ~~characterized in that first wherein~~ said step of fitting the attachment body on the previously prepared bone includes attaching a disk-like positioning body, such as a positioning or pressure disk (5), is attached as said attachment part at a predetermined position to the pretreated-prepared bone, wherein a provisional positionally-correct fixation is provided by hooks or projections (13) protruding from the diskpositioning body, after which the positioning body or pressure disk is anchored or fixed to the bone by a hollow screw of said mounting segment which is inserted through a medial hole in the diskpositioning body.

10. (currently amended) Method according to ~~one of Claims 7 or 8,~~
~~characterized in that~~ Claim 9, wherein the joint head is fitted on the fitted
attachment body which has a slightly conically-shaped collar (15) protruding
from the bone by an approach in which ~~the~~ a hollow-cylinder-shaped receiver
on the inside of the joint head, which receiver also has a slightly conically-
shaped wall (35), is mounted in a form-locking manner over the collar; and
that finally the joint head is definitively fastened or fixed by applying a force to
its external surface.

11. (new) Method according to Claim 8, wherein the joint head is fitted
on the fitted attachment body which has a slightly conically-shaped collar
protruding from the bone by an approach in which a hollow-cylinder-shaped
receiver on the inside of the joint head, which receiver also has a slightly
conically-shaped wall , is mounted in a form-locking manner over the collar;
and that finally the joint head is definitively fastened or fixed by applying a
force to its external surface.

12. (new) Prosthesis according to Claim 1, wherein the calotte or joint
head has at least one nearly spherical surface corresponding to a spherical
section with an opening angle of $< 180^\circ$.

13. (new) Prosthesis according to Claim 3, wherein the disk-like
positioning body has an at least nearly circular projecting collar with a
terminally located, conical support edge, and wherein a beveled retaining
flange is formed on the hollow screw terminally projecting outward to match
the support edge so as to rest on or abut the support edge inside the collar .